

ABSTRACT OF THE DISCLOSURE

An image compression and decompression apparatus comprises a identification section, a conversion section, a characteristics correction section, an image compression section, and a decompression section. The identification section identifies given color image information and outputs an identification signal. The conversion section converts color image information to block-based color image information having a specified length. The characteristics correction section corrects block-based color image information with respect to characteristics thereof in units of the blocks based on an identification signal output from the identification section. The image compression section compresses a corrected image in units of blocks and stores the compressed image in a storage area. The decompression section decompresses a compressed image in units of blocks.

09541-2001
T09221-215960

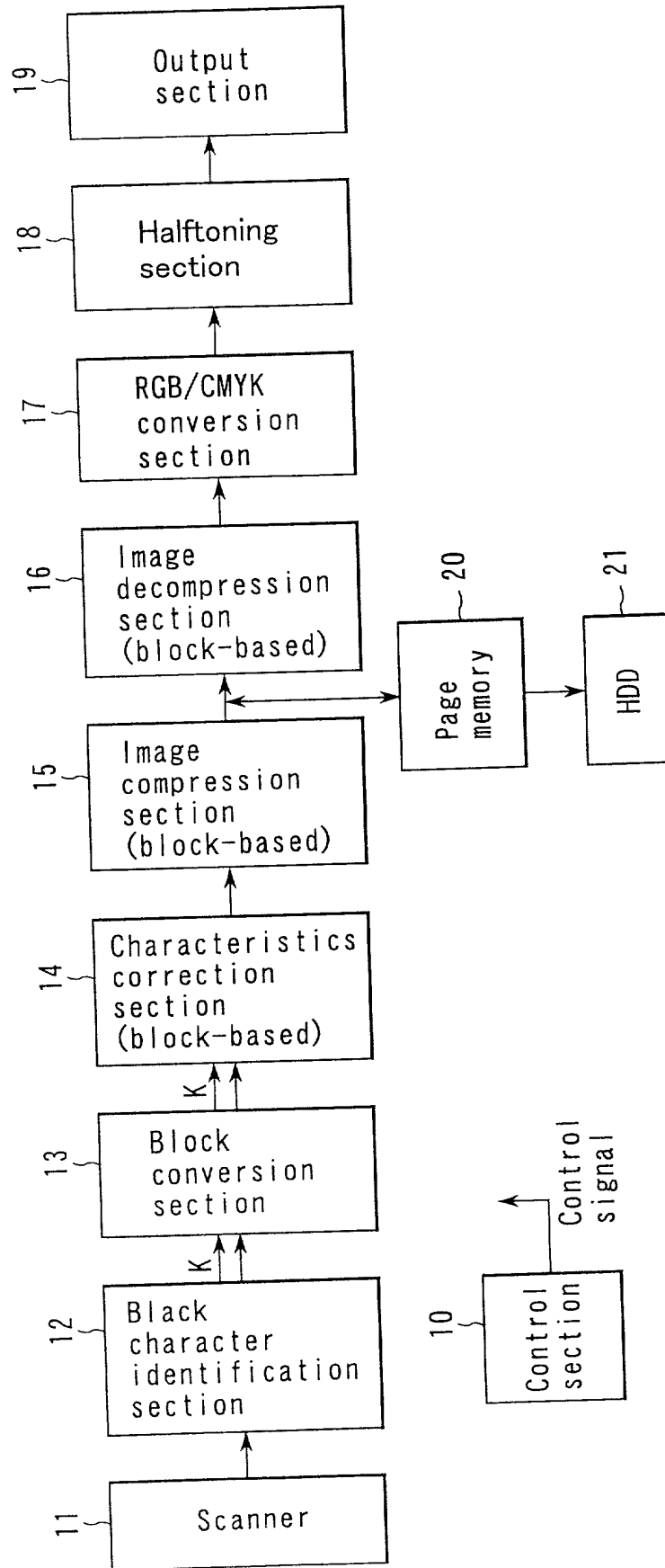


FIG. 1

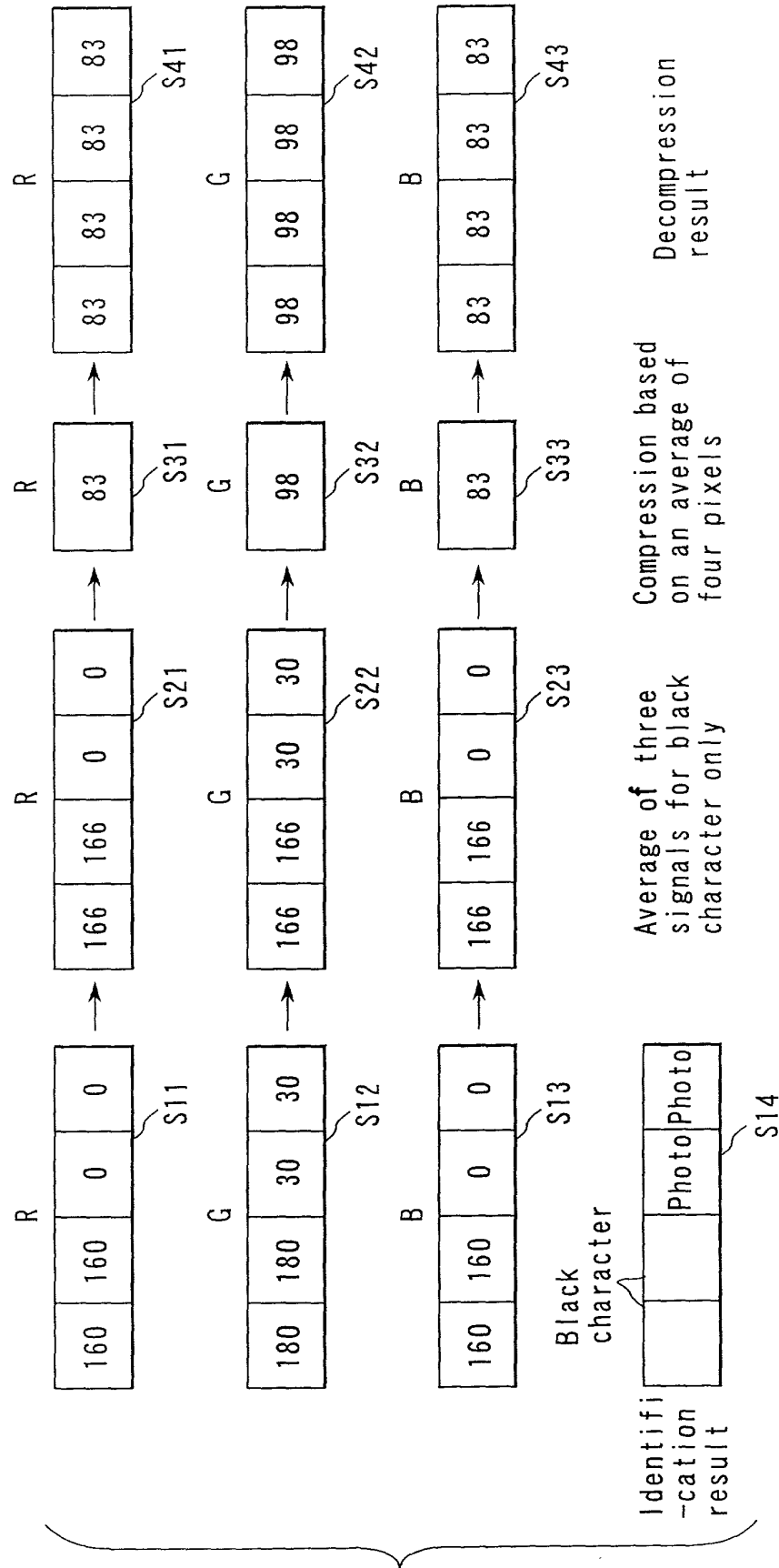


FIG. 2

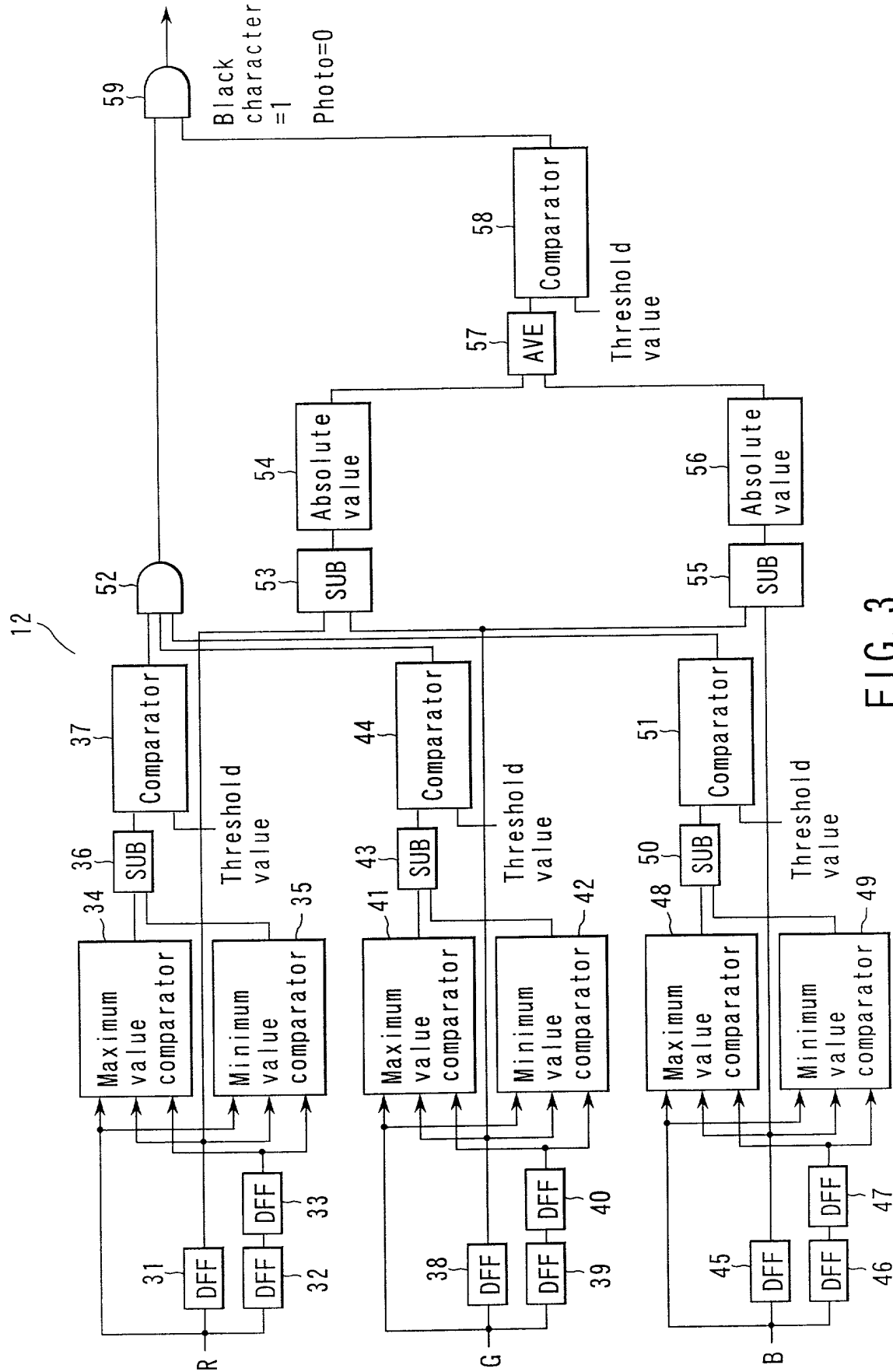


FIG. 3

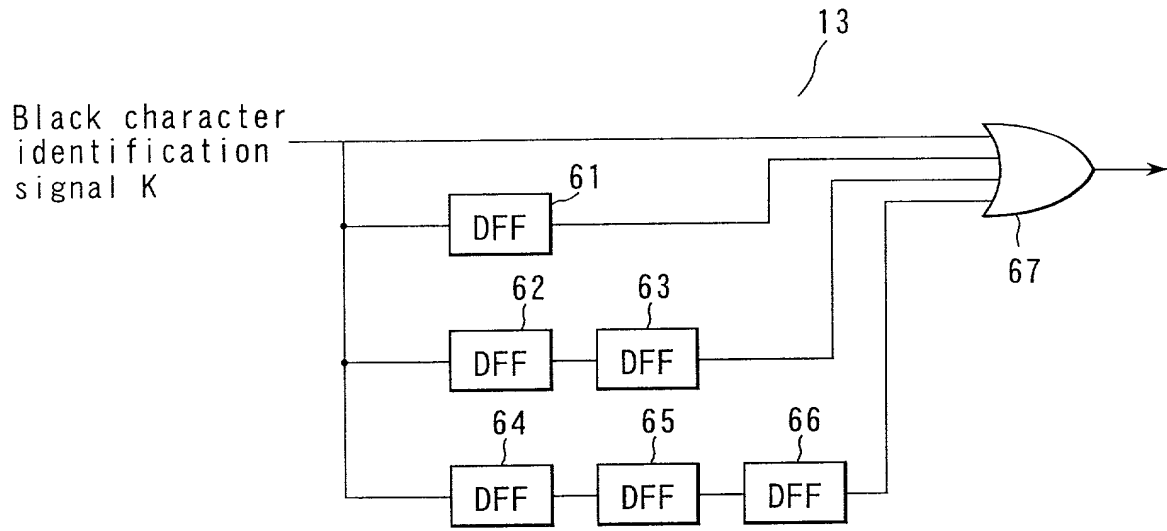


FIG. 4

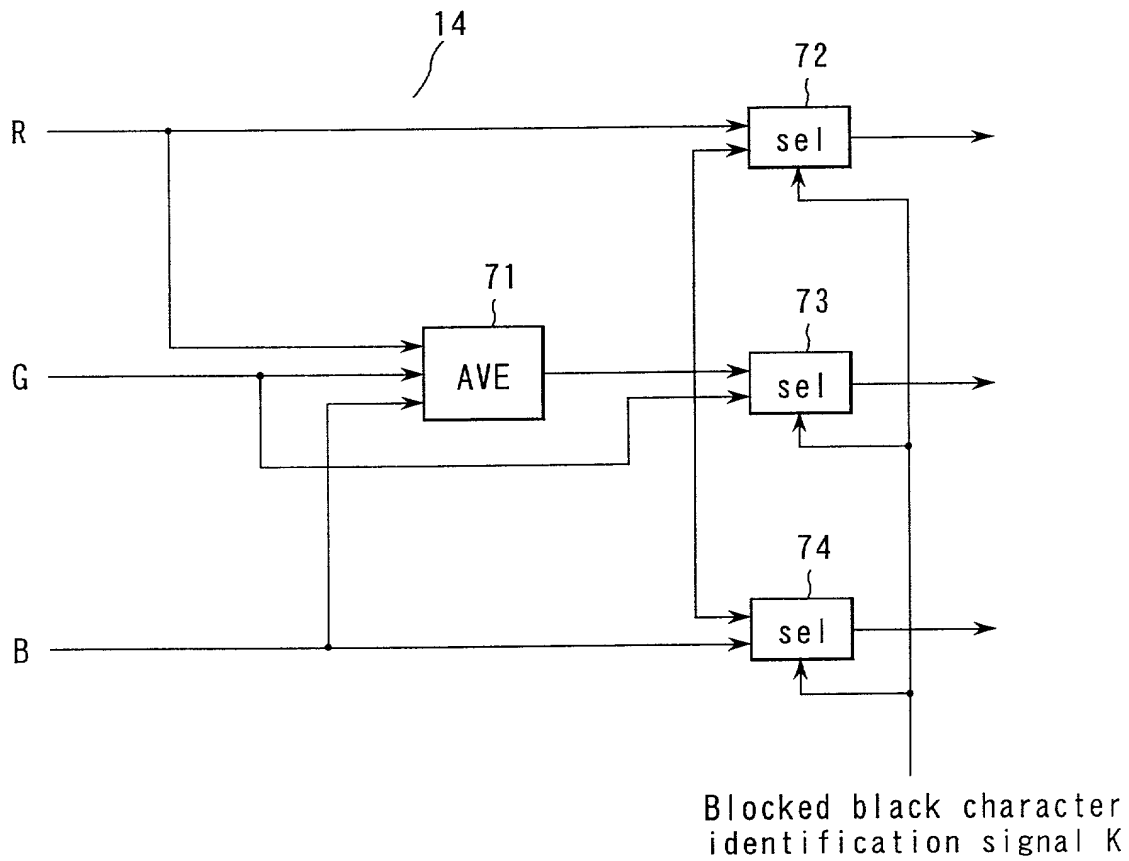


FIG. 5

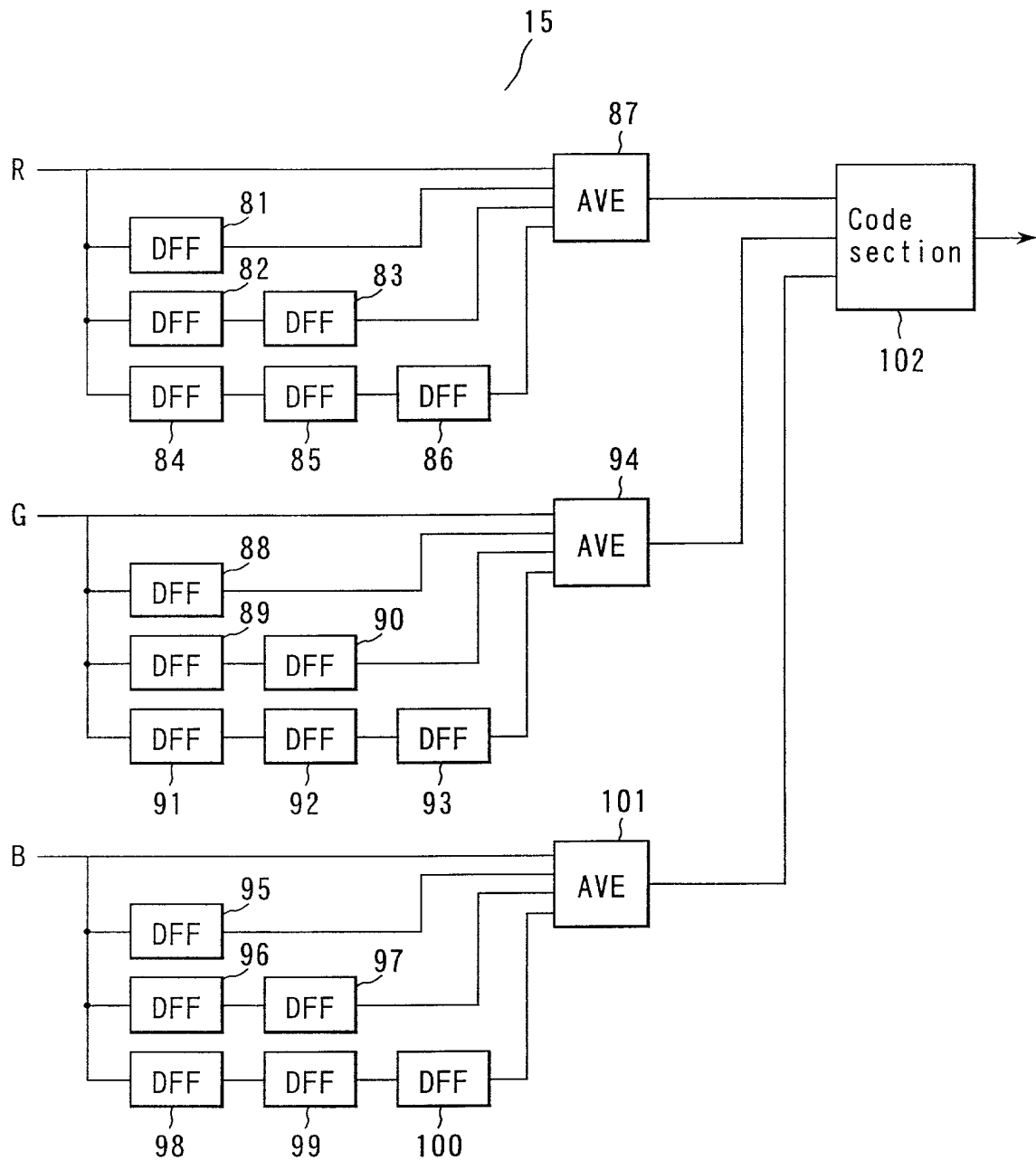


FIG. 6

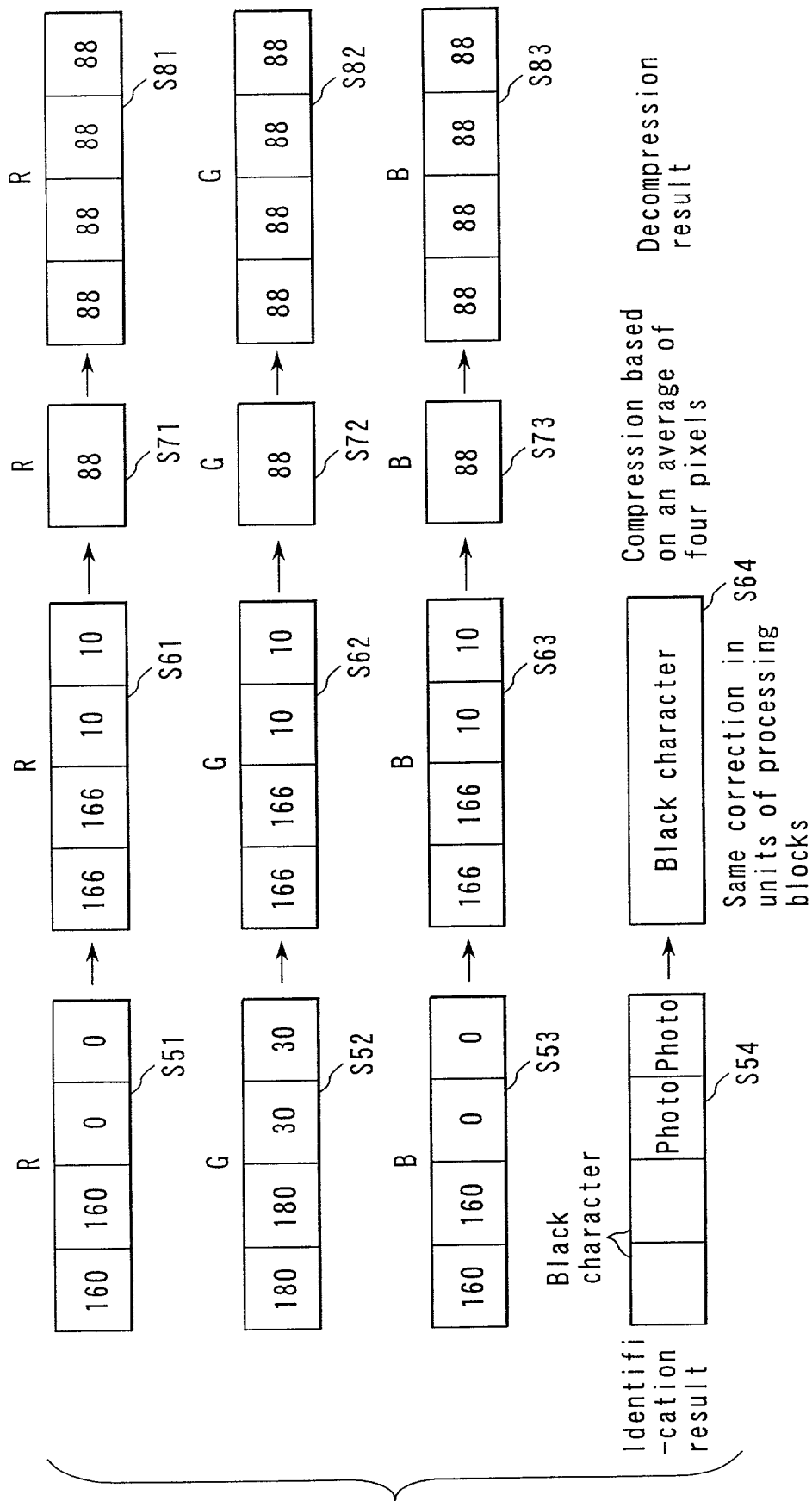


FIG. 7

FIG. 8

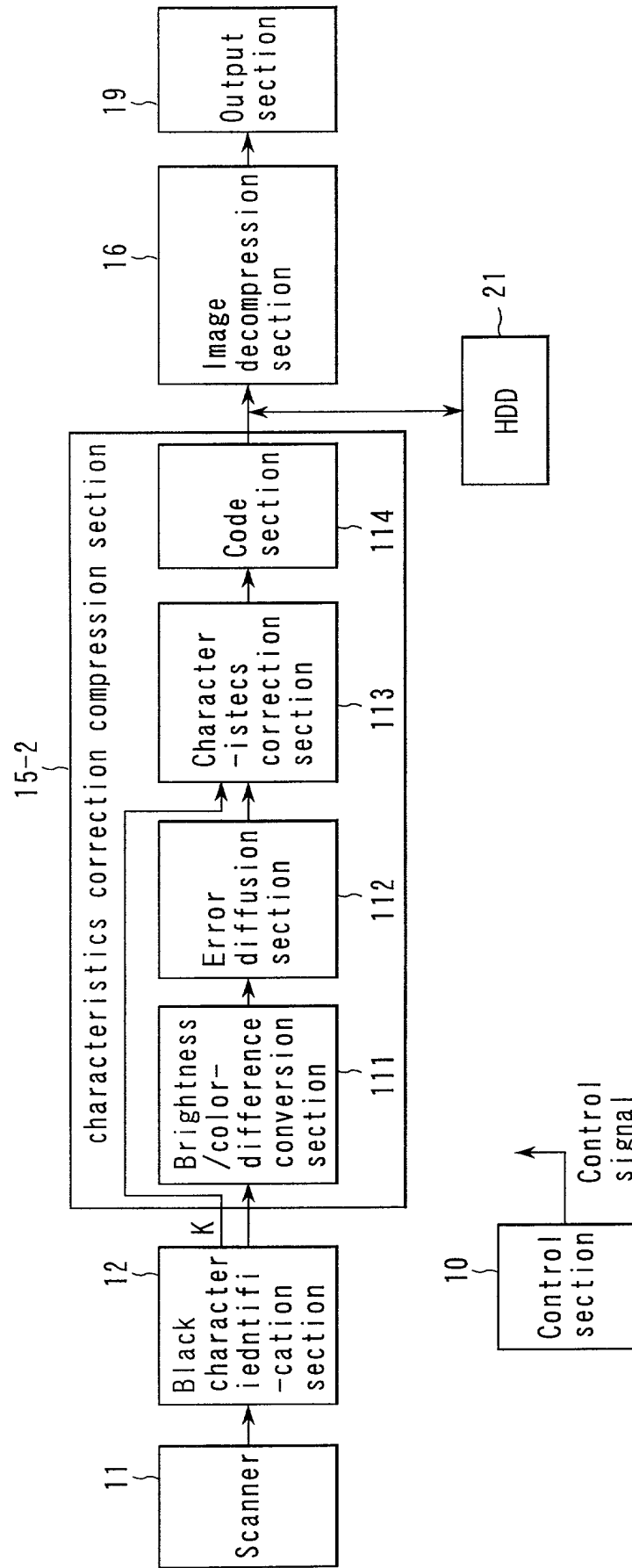


FIG. 8

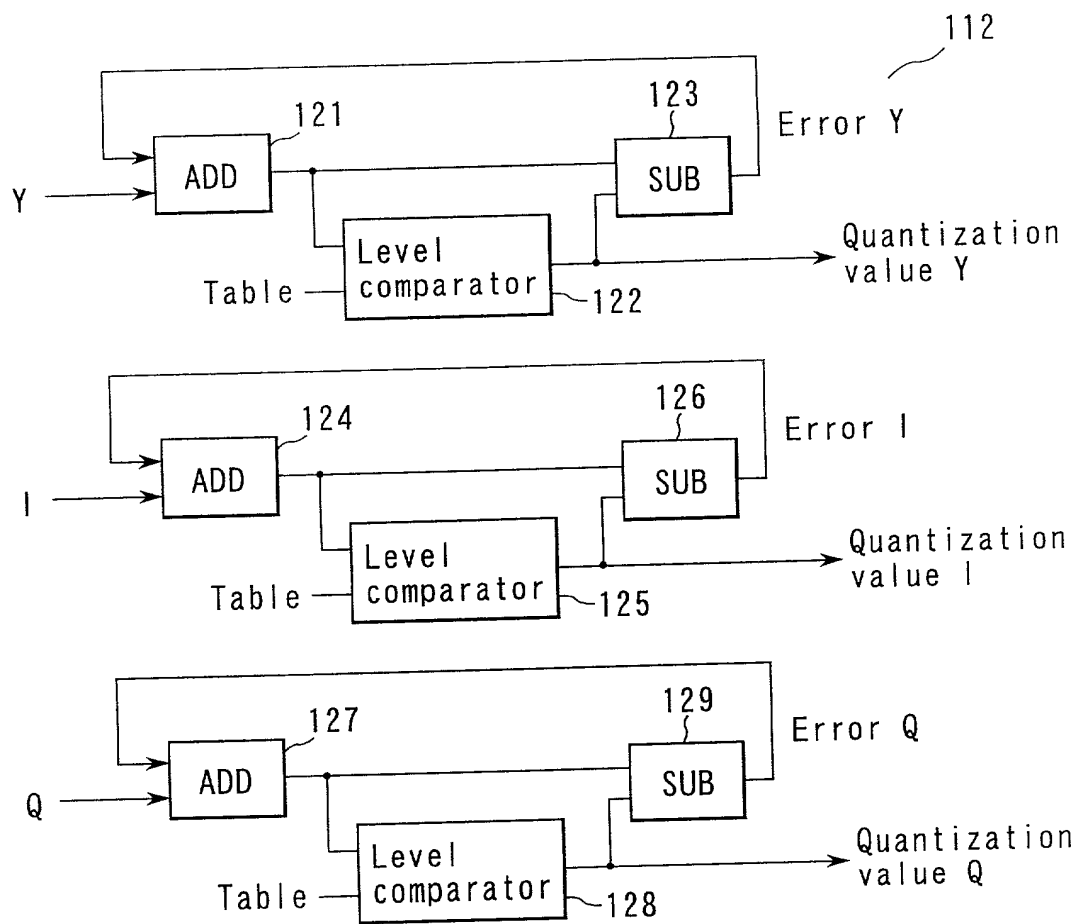


FIG. 9

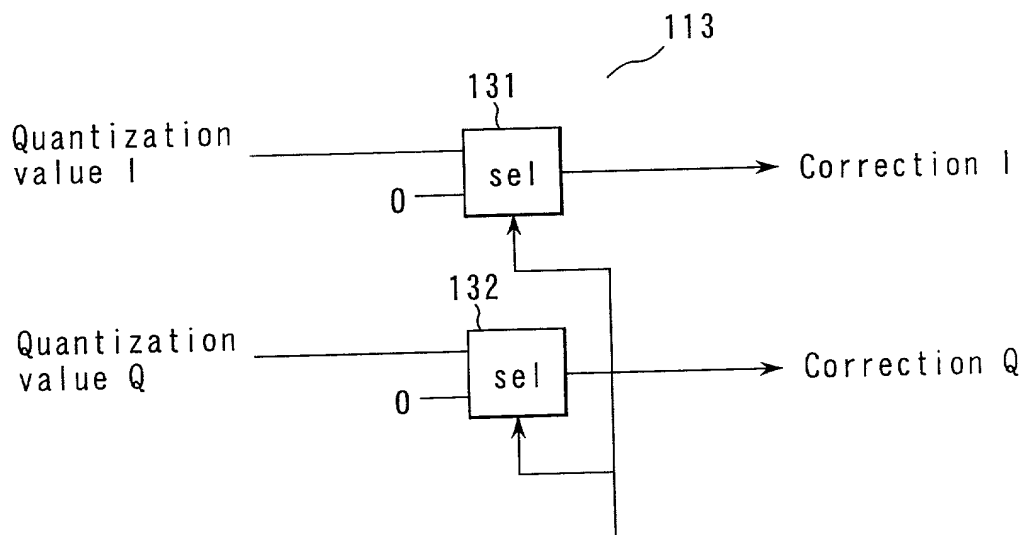


FIG. 11

Black character identification
 signal K

Brightness table Y

| Threshold value | Quantization value |
|--------------------|--------------------|
| $X < 8$ | 0 |
| $8 \leq X < 25$ | 16 |
| $25 \leq X < 42$ | 33 |
| $42 \leq X < 59$ | 50 |
| $59 \leq X < 76$ | 67 |
| $76 \leq X < 93$ | 84 |
| $93 \leq X < 110$ | 101 |
| $110 \leq X < 127$ | 118 |
| $127 \leq X < 144$ | 135 |
| $144 \leq X < 161$ | 152 |
| $161 \leq X < 178$ | 169 |
| $178 \leq X < 195$ | 186 |
| $195 \leq X < 212$ | 203 |
| $212 \leq X < 229$ | 220 |
| $229 \leq X < 246$ | 237 |
| $246 \leq X$ | 255 |

FIG. 10A

Color difference table IQ

| Threshold value | Quantization value |
|----------------------|--------------------|
| $X < -224$ | -225 |
| $-224 \leq X < -160$ | -192 |
| $-160 \leq X < -96$ | -128 |
| $-96 \leq X < -16$ | -56 |
| $-16 \leq X < 16$ | 0 |
| $16 \leq X < 96$ | 56 |
| $96 \leq X < 160$ | 128 |
| $160 \leq X < 224$ | 192 |
| $224 \leq X$ | 255 |

FIG. 10B

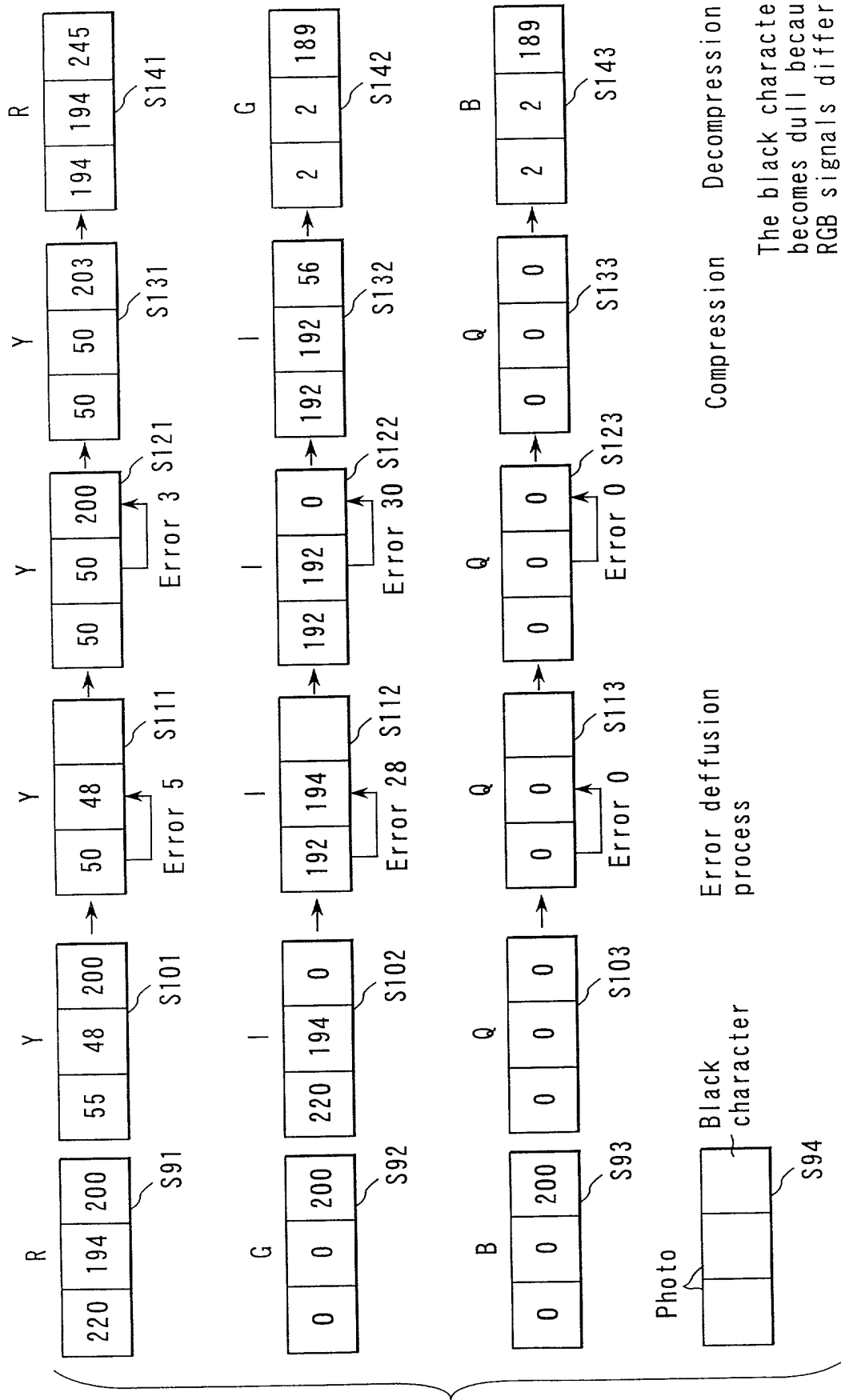


FIG. 12

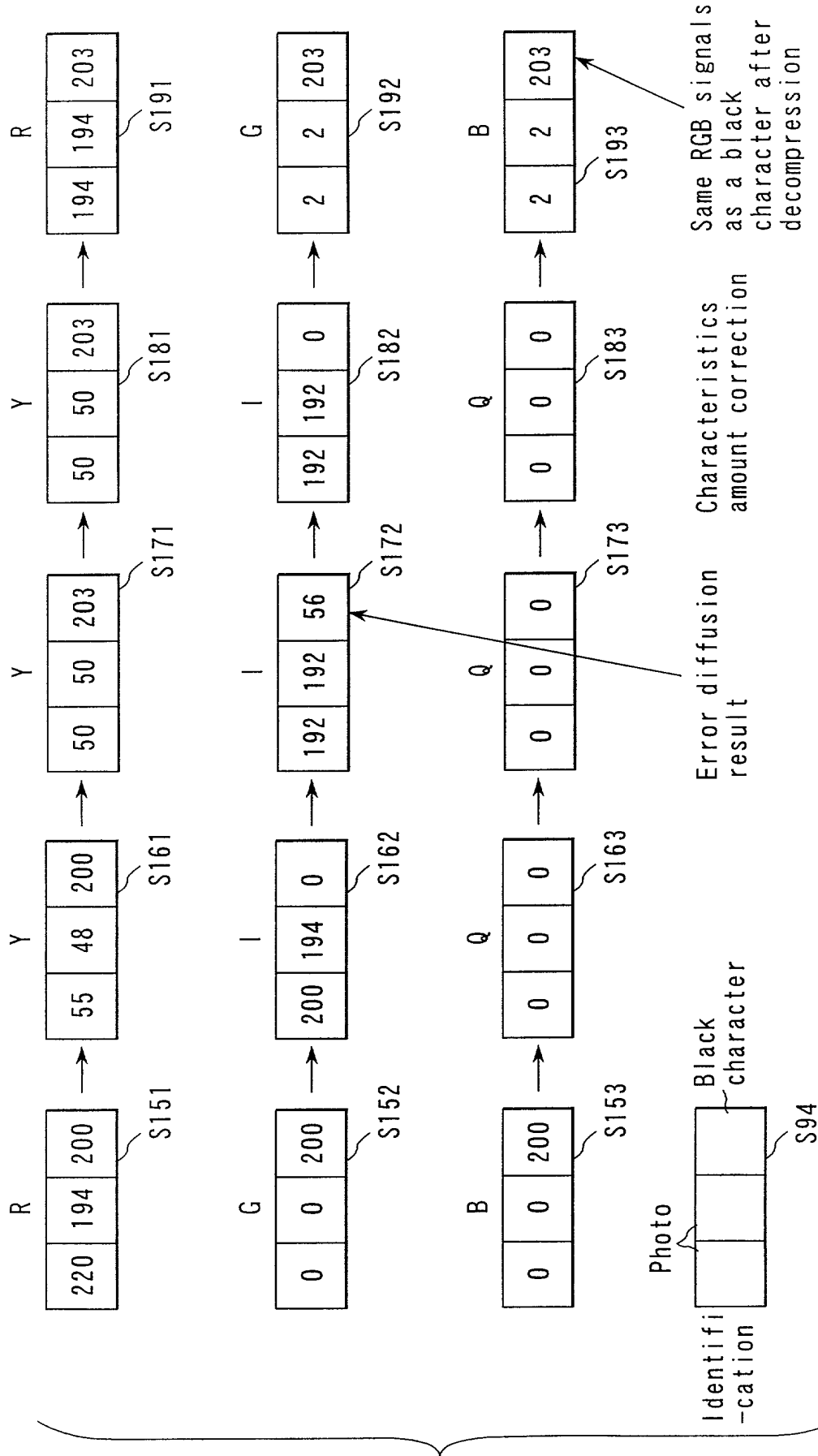


FIG. 13

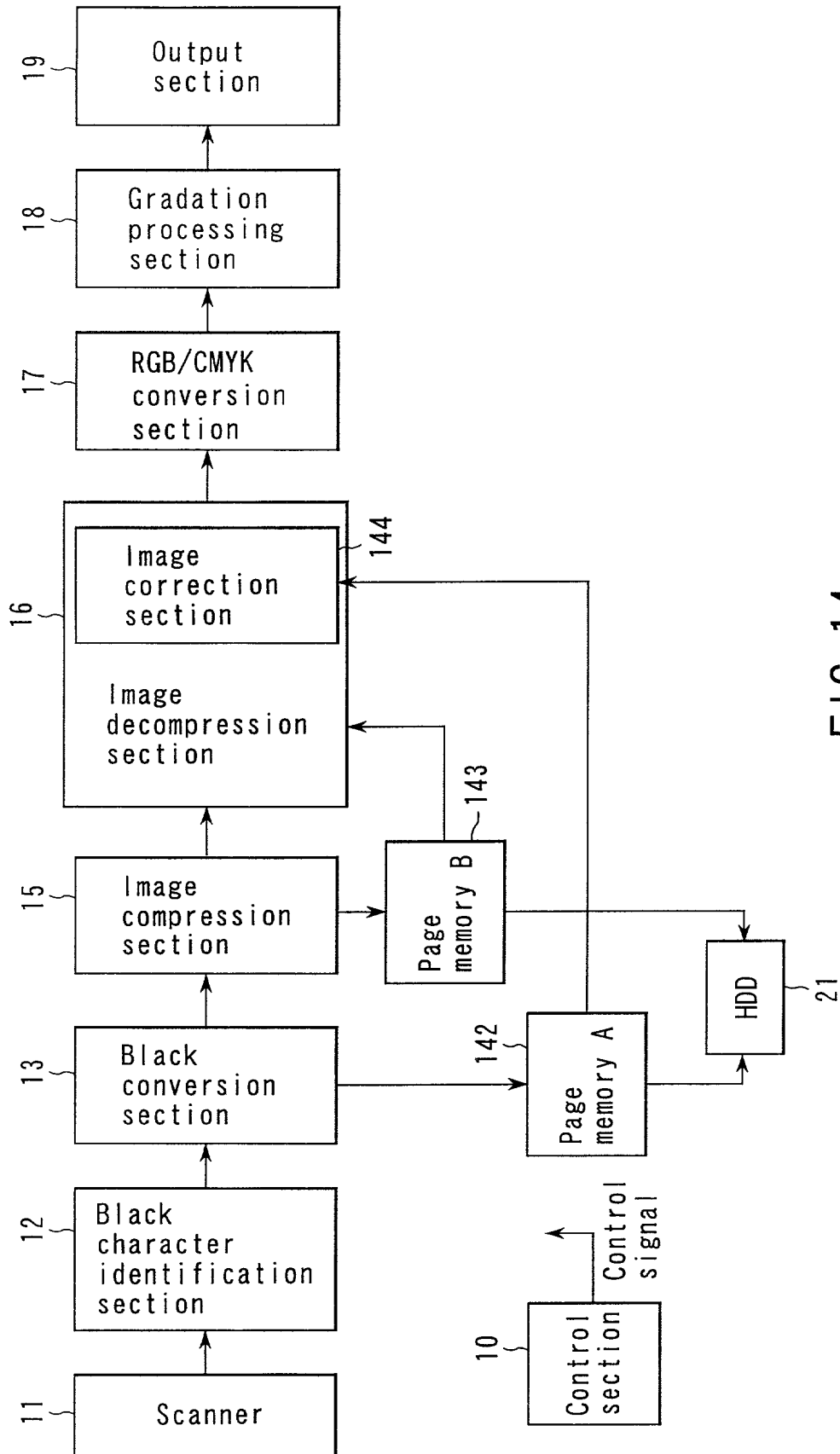


FIG. 14

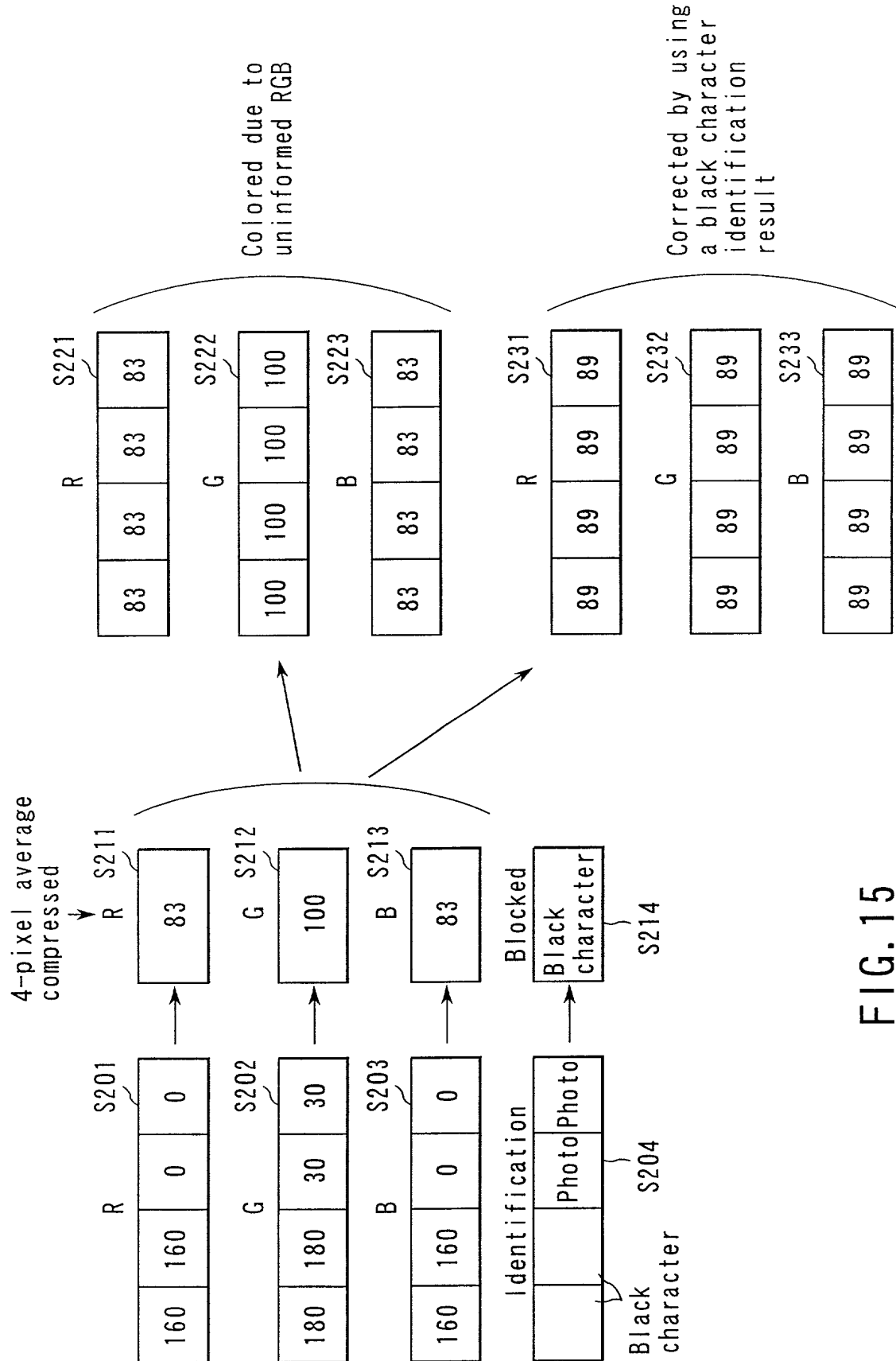


FIG. 15

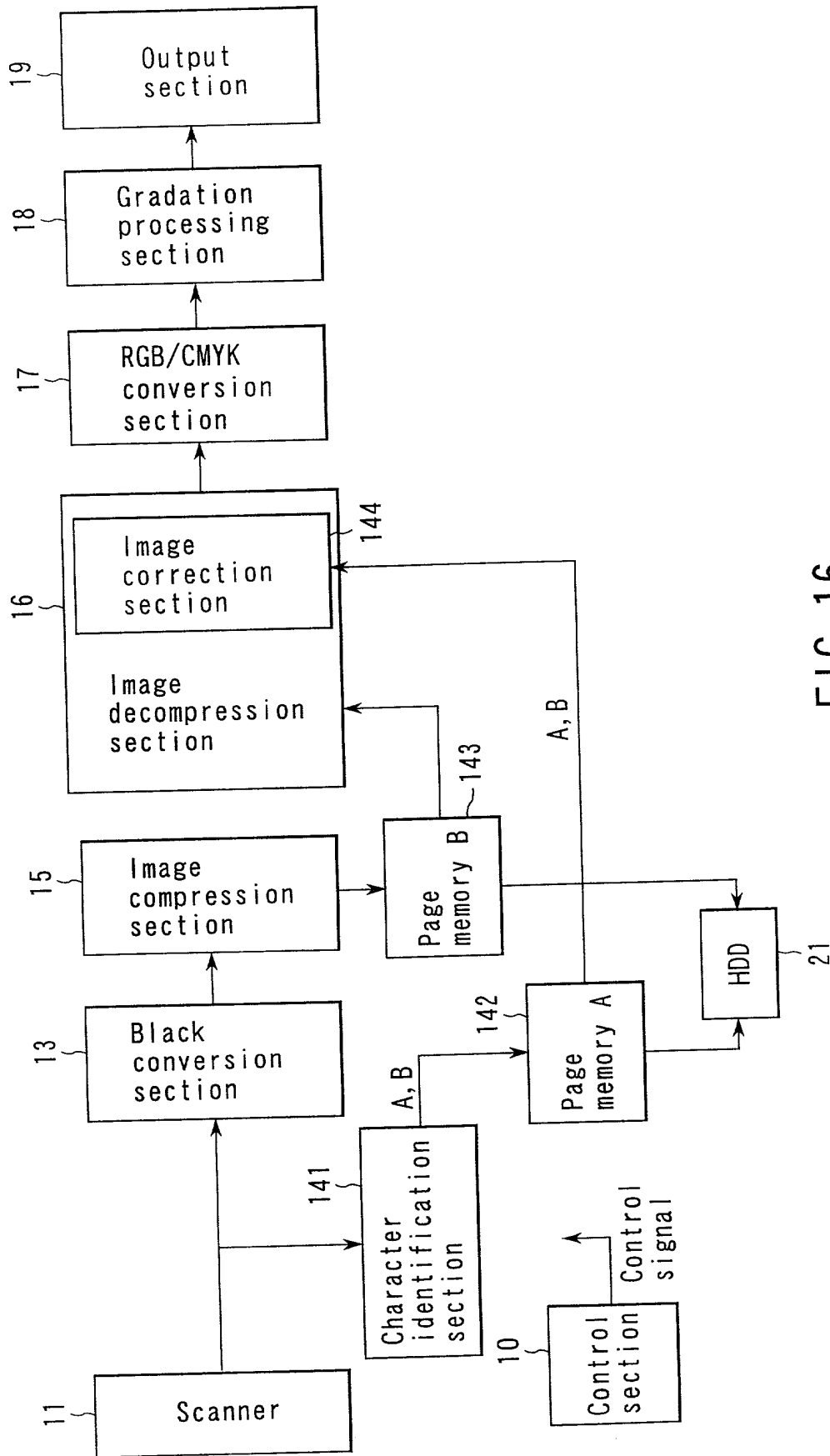


FIG. 16

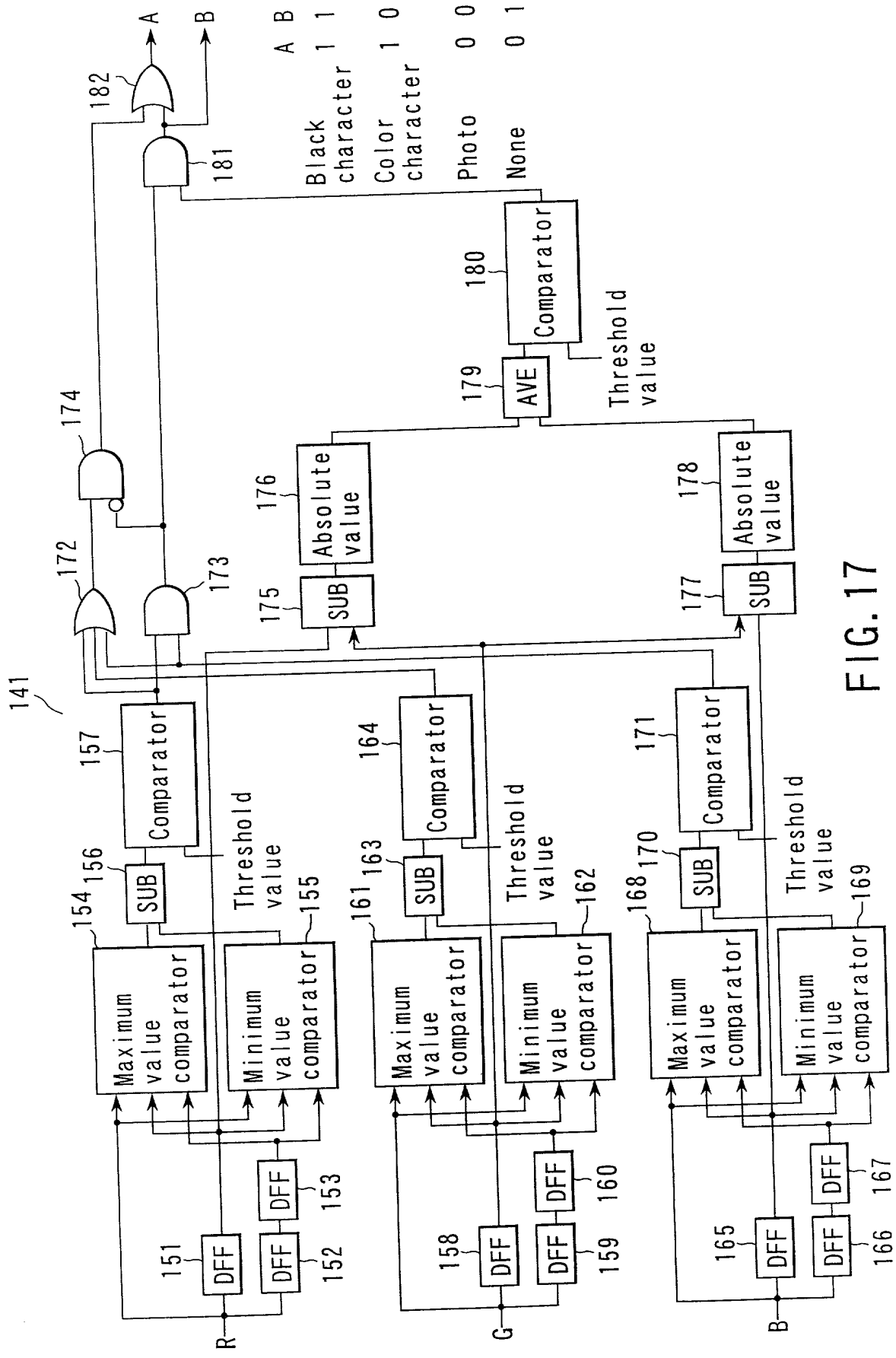


FIG. 17

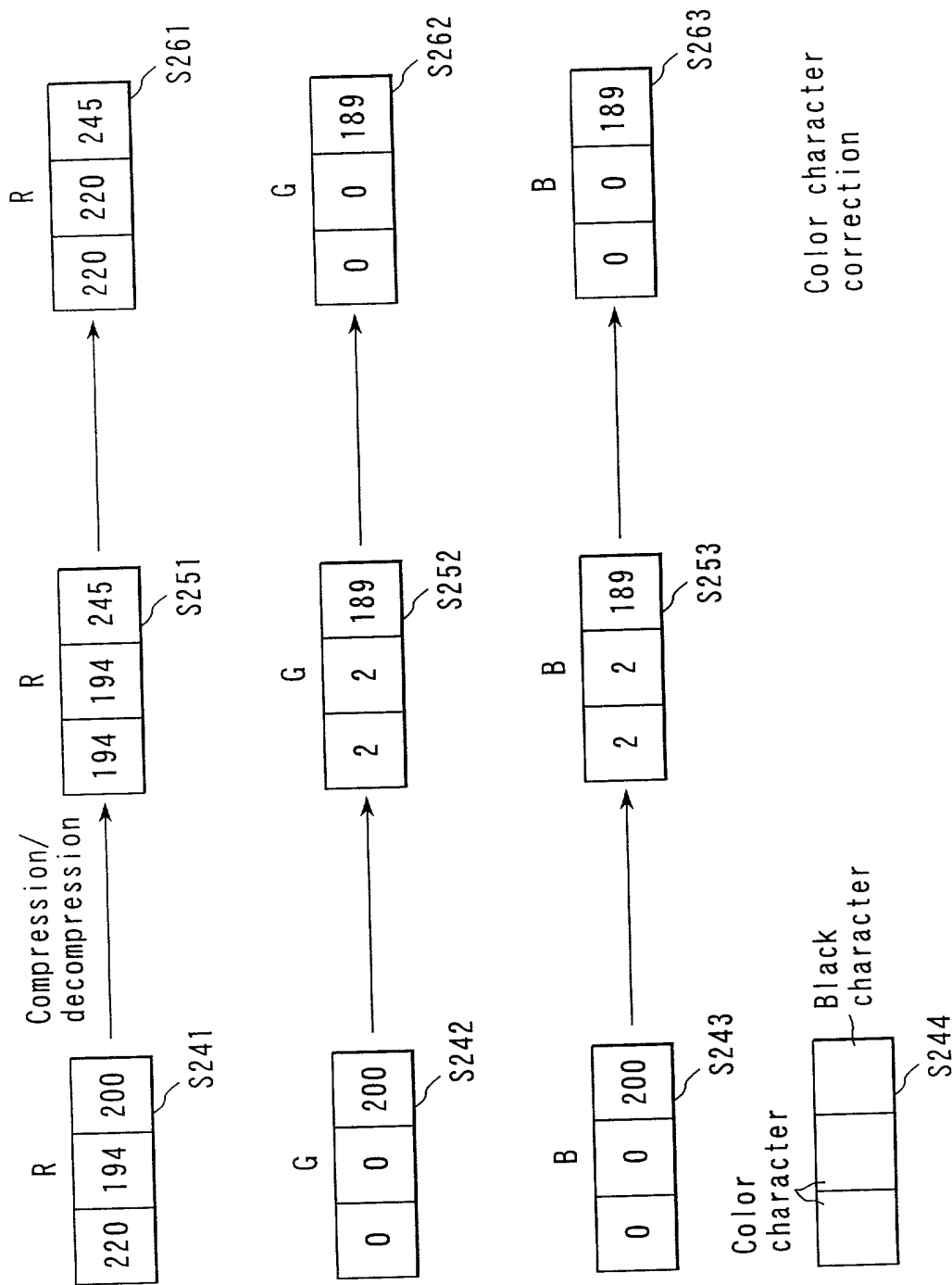


FIG. 18

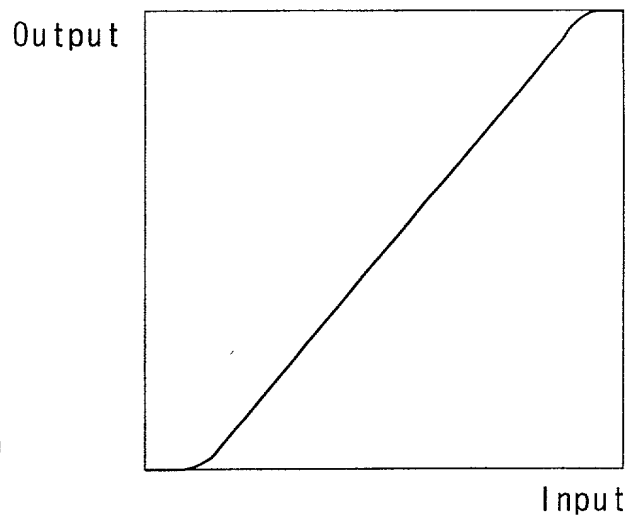


FIG. 19

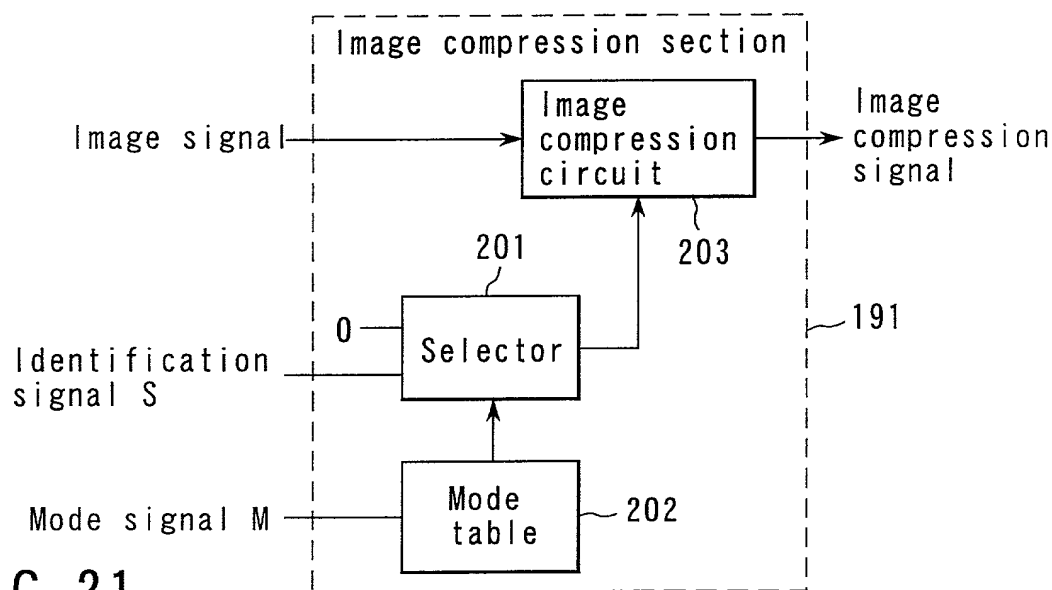


FIG. 21

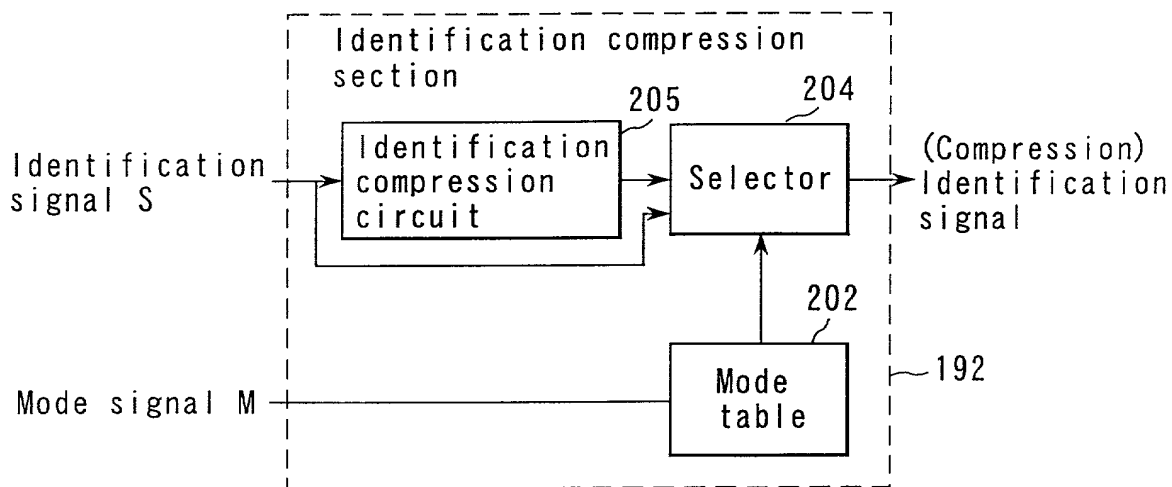


FIG. 22

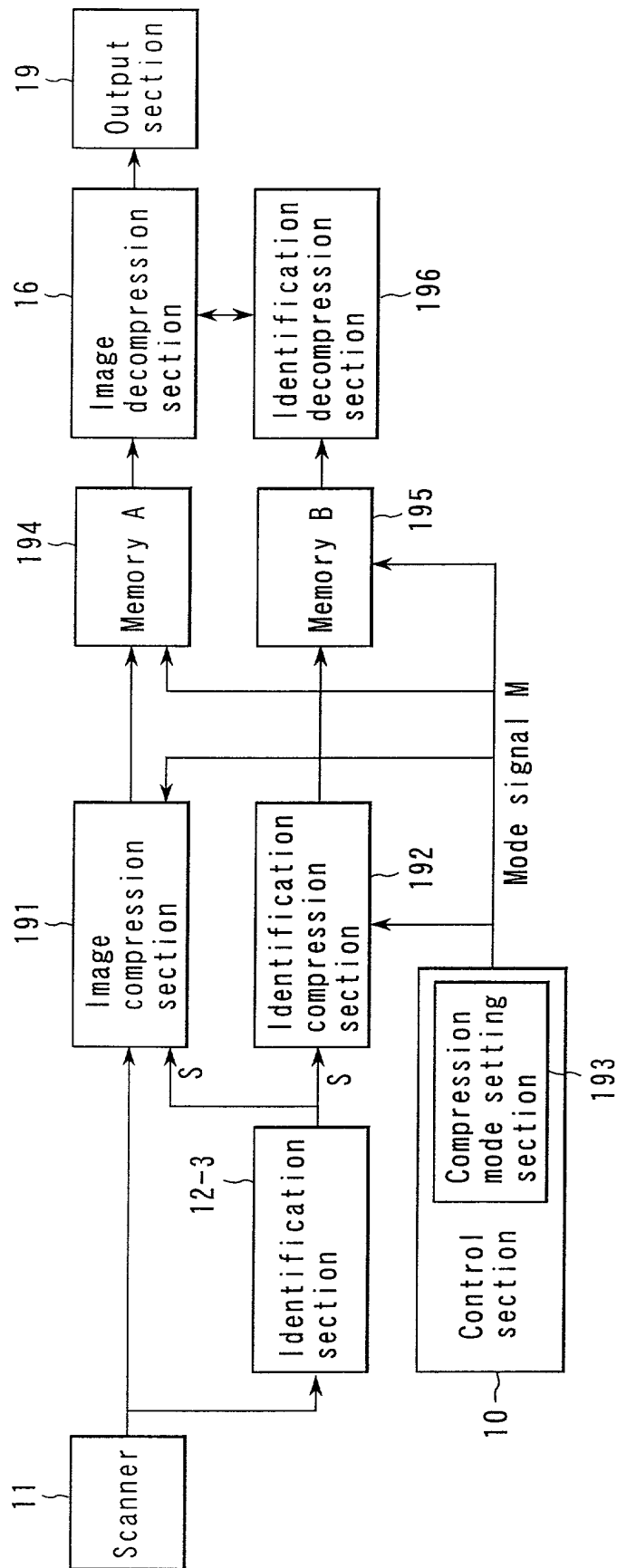


FIG. 20

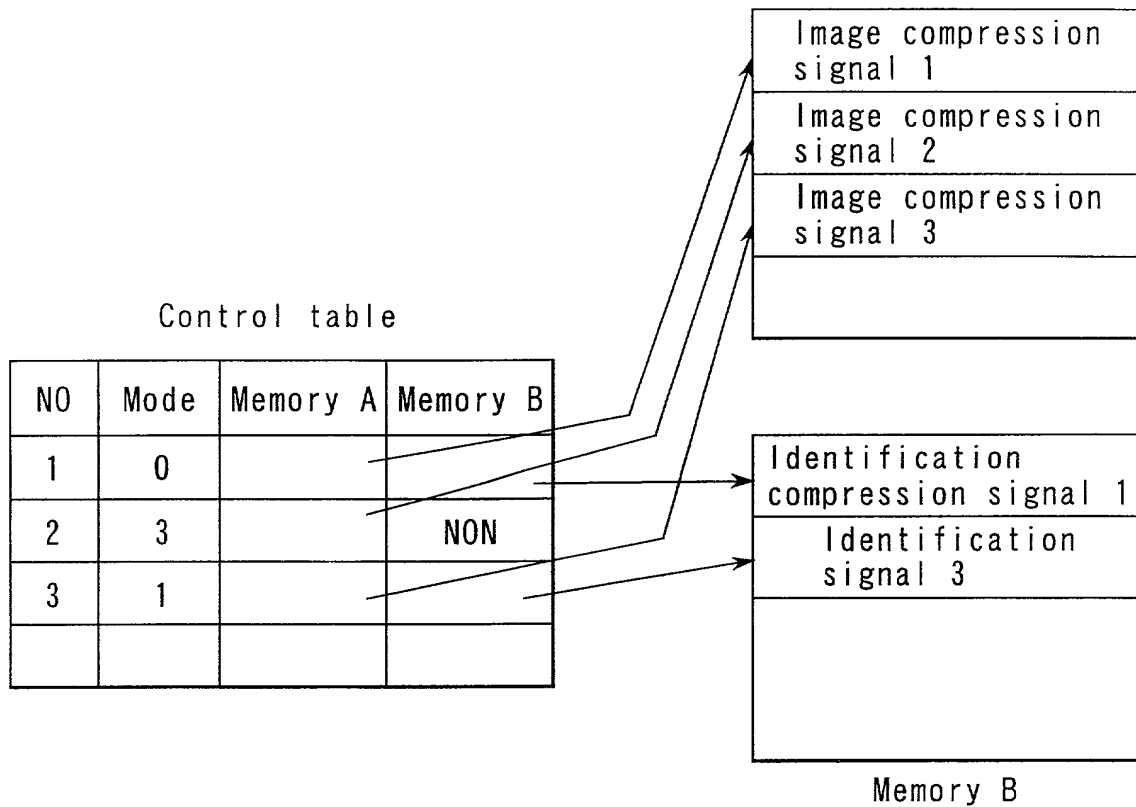


FIG. 23

| Mode | Mode table image | Mode table identification |
|------|-------------------------|----------------------------|
| 0 | Identification signal | Identification compression |
| 1 | Identification signal | Identification data |
| 2 | Identification not used | Identification compression |
| 3 | Identification not used | No identification |

FIG. 24

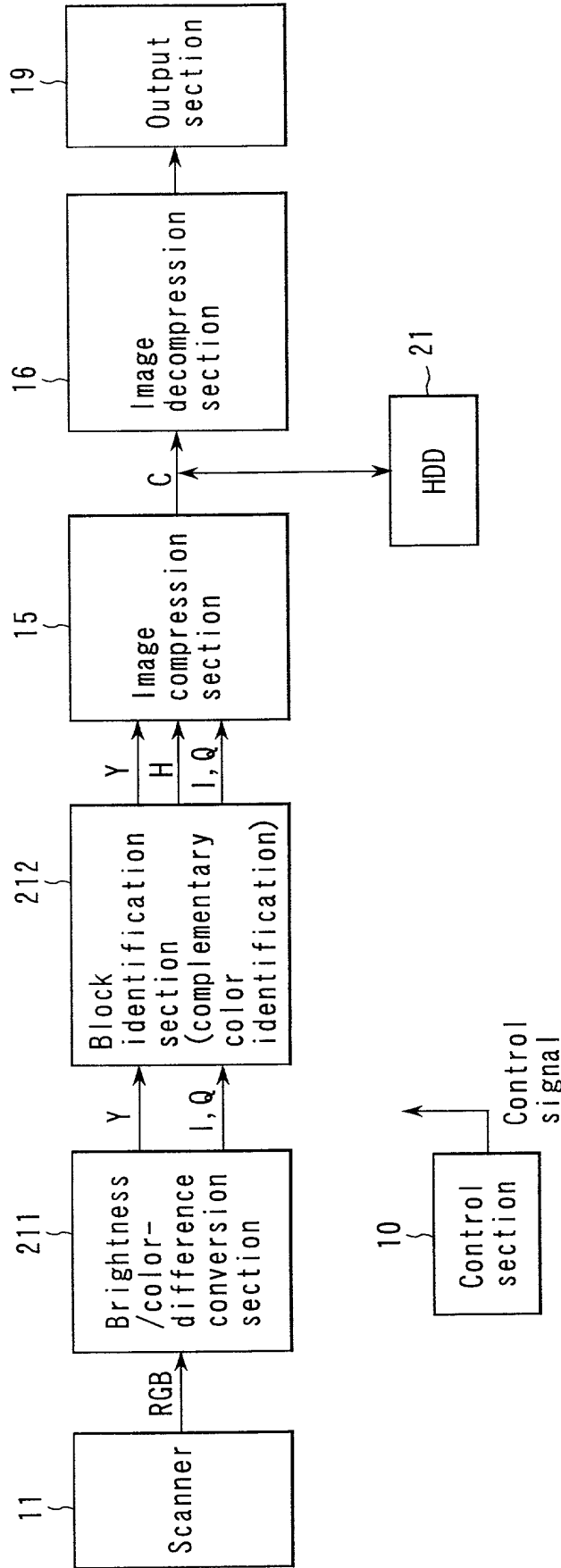


FIG. 25

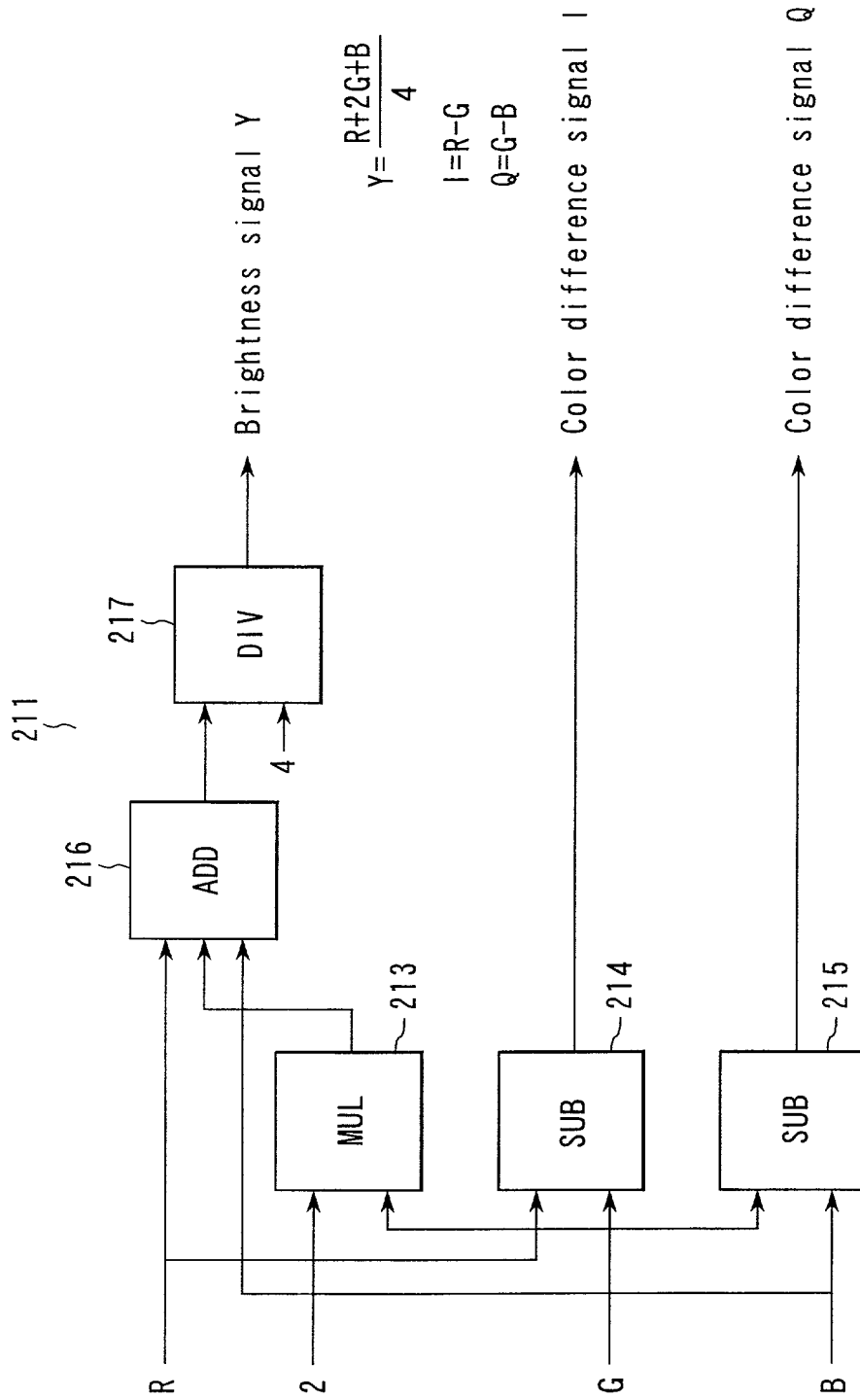


FIG. 26

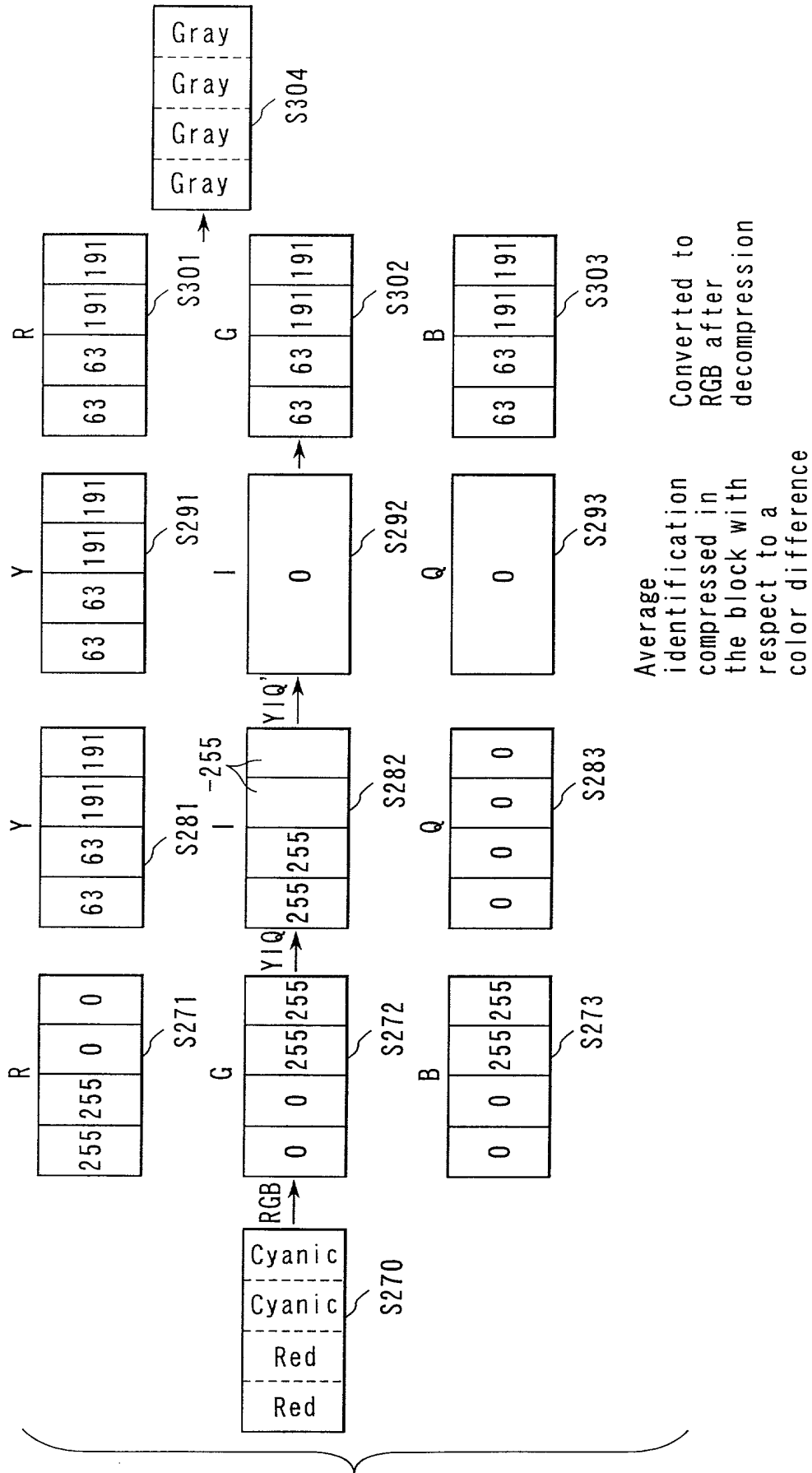


FIG. 27

212

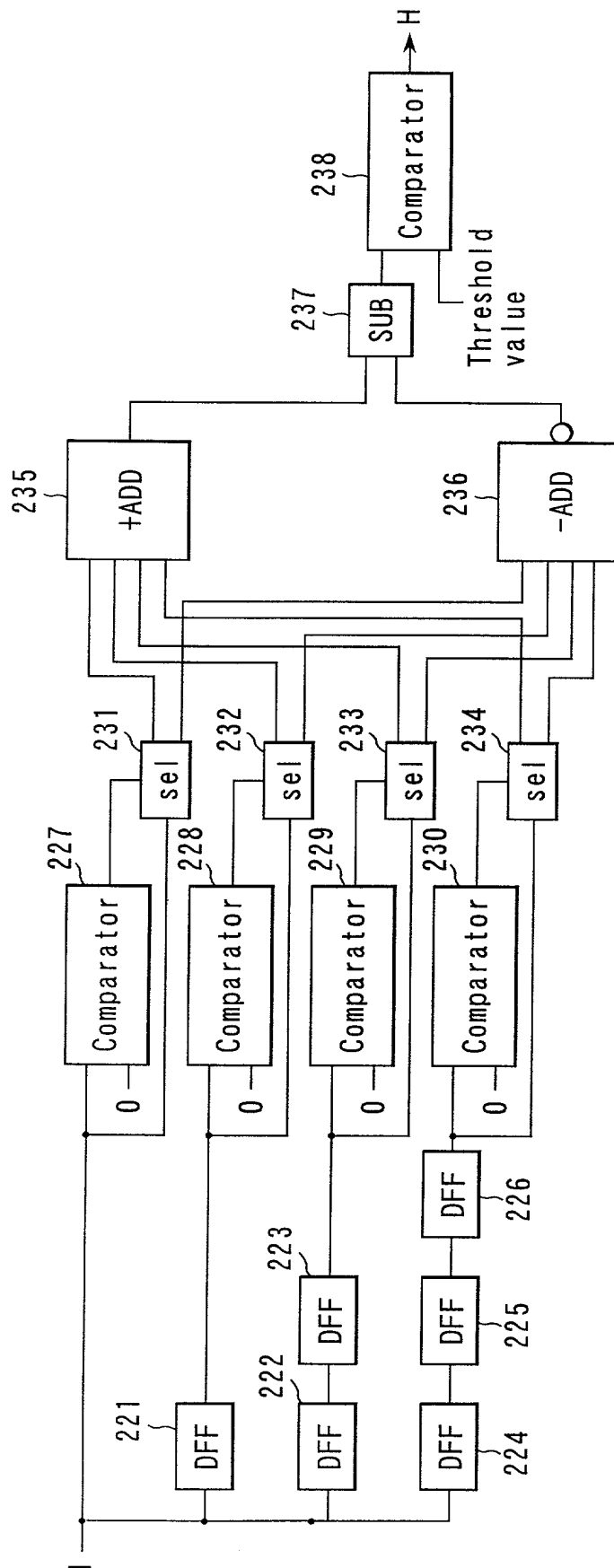


FIG. 28

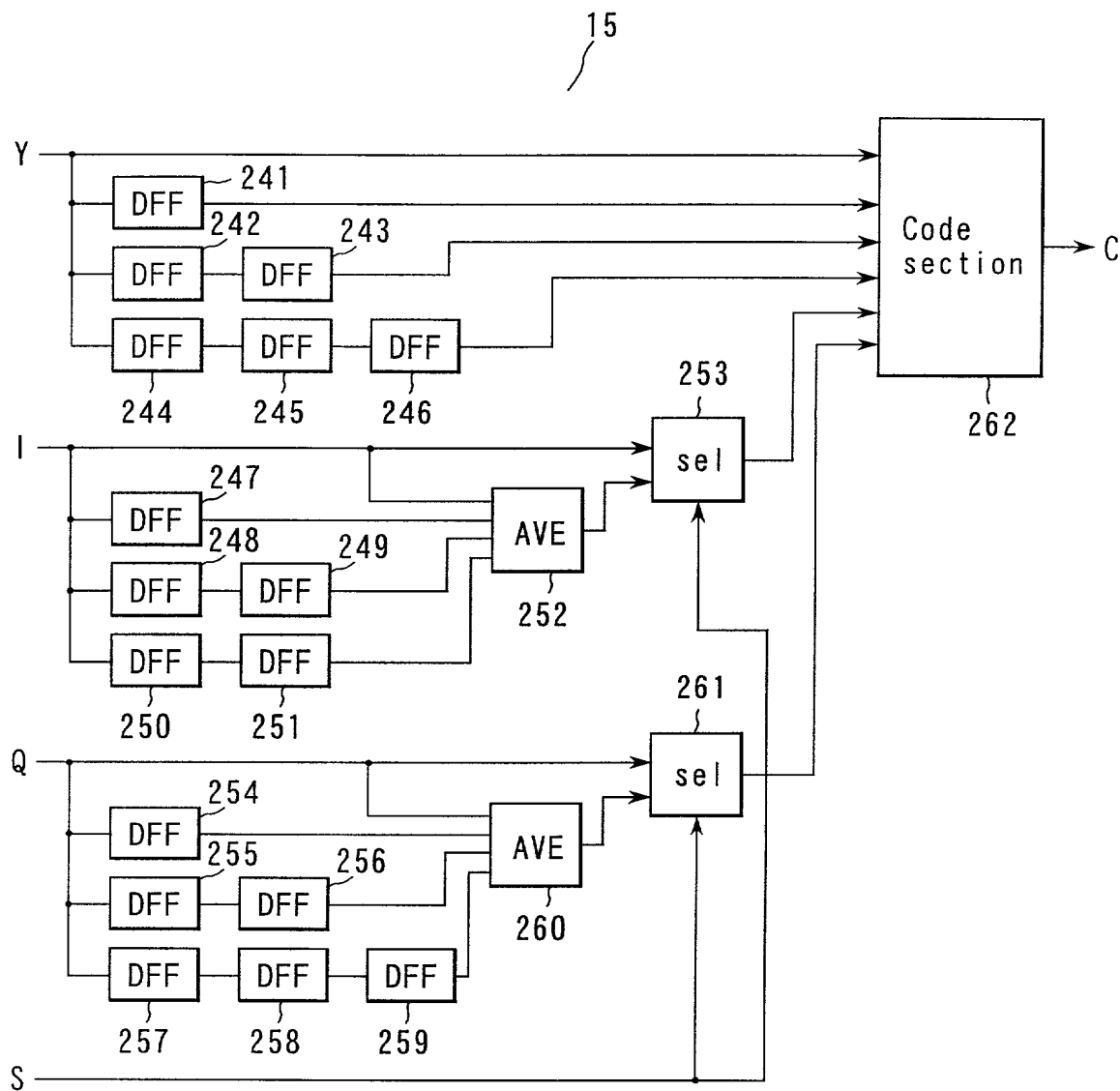


FIG. 29